

PL 3011
Reports
RAC

APQ-56 Improvement Program

May 14, 1957

SYSTEM

XH-2 XH-3 NAVY	2.18	Recorder Cooling - <input type="text"/>	STAT
<p>XH-2 and XH-3 recorders have all been modified to provide a better cooling system. Drawings are being brought up to date and should be released next week. No further reports will be submitted on this problem.</p>			
XH-2 XH-3 NAVY	4.14	R. F. High Voltage Power Supply - <input type="text"/>	STAT
<p>No substantial progress has been made during the past week. Several adhesives were tried in an attempt to bond the Rexolite, but not any of the adhesives showed satisfactory results. The 3M Company has been made cognizant of our problem and they are sending us a sample of an adhesive that is suppose to give satisfactory bonding to the Rexolite material. The adhesive was expected to arrive early this week.</p>			
All	6.20	P. E. Cell - <input type="text"/>	STAT
<p>Three P. E. Cell Test Sets are being built and tested to establish the sensitivity of P. E. Cells. All sets have been built. The first attempt at correlation between sets with rerated lamps gives about $\pm 6\%$ correlation. The lamps are being rerated to give a photo cell output equal the average of all the lamps tested at ET6 rated current.</p>			
All	12.19	Pulse Cable Connectors - <input type="text"/>	STAT
<p>No change since last report.</p>			
Time Shared	13.20	AGC - Friedmann, <input type="text"/>	STAT
<p>Design a new AGC that will be less susceptible to r-f interference and to stray audio pick-up.</p> <p>Drafting is checking the completed detail drawings. They expect to finish this week.</p> <p>Components Engineering is attempting to get complete information on the tests that UTC applies to their coils.</p>			
Time Shared	17.15	Wide Band Receiver - <input type="text"/>	STAT
<p>No change since last report.</p>			
All	19.16	Receiver Design - <input type="text"/>	STAT
<p>Testing of the receiver components is taking longer than expected because the operating points were not definitely specified. It is hoped that final tests can be completed within the next report period.</p>			

SYSTEM

All	20.12	Pulse Width - <input type="text"/>	STAT
<p>The line type modulator breadboard has been completed and several tests run utilizing the 6799 magnetron. An R-F envelope of 0.1 us (3db points) has been obtained but some operational difficulties have been encountered.</p> <p>Investigation of the above will continue.</p>			
All	21.14	Pulse Width (Quick Fix) - <input type="text"/>	STAT
<p>No change since last report.</p>			
All	22.11	Resolution Test Set - <input type="text"/>	STAT
<p>A means of measuring recorder resolution is needed in the field. Eight Resolution Test Sets are being built by S. R. for the Time Shared System using commercial type construction. Assembly and wiring have been delayed because of interference of recorder cooler work for the XH-2 system. Writing of a handbook has been started. Test procedures are being prepared.</p>			
Time Shared XH-3 NAVY	24.5	Deflection Driver Drift - <input type="text"/>	STAT
<p>No change since last report.</p>			

KIT NO	DESCRIPTION	TIME SHARED												REMARKS											
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	Recorder Cooler	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
2	Camera Cooling	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
3	Camera Servo Motors	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
4	Focus & Alignment Fixture	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
5	Recorder 10 KV Power Supply	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
6	Power Supply Plug V. Focus Alignment Fixture	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
7	Provide for Rear Antenna Feed	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
8	Control Panel to Prevent Synchronizer - Replace Clutch in Alt. Servo.	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
9	Synchronizer - Replace Clutch in Alt. Servo.	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
10	Power Supply	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
11	Maggie Seal	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
12	Ant. System	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
13	Ground Range Sweep Add Clamping Circuit	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
14	Cabling, Accessories and Waveguide	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
15	AGC Clamp Video Amp.	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
16	Name Plates	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
17	Replace Temporary Cooling Pins	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
18	Maggie & Klystron Trigger Circuit (Overload at Turn-On)	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
19	Rectifier R.F. Head	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S